8700043

TO ALL TO WHOM THESE: PRESENTS SHAYL COME:

Nickerson American Plant Breeders, Inc.

Talherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(8) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'Telemark'

In Testimony Wathereot, I have hereunto set my hand and caused the seal of the Plant Tariety Protection Office to be affixed at the City of Washington, D. C. 31st day of the year of our Lord one thousand nine hundred and eighty-eight.

Kiland E. Fyn

Plant Variety Protection Office

APPROVAL	EXPIRES	4-30-35

U,S DEPARTMENT	OF AGRICULT	JRE	FORM APPROVED: OMB NO. 0581-0065				
AGRICULTURAL M.	ARKETING SERV	/ICE	Application is required in order to determine				
ADDLIGATION FOR BUILDING	ET1/:000TE	ATION OFFITIES ATE	if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is				
APPLICATION FOR PLANT VARI	s on reverse)	CTION CERTIFICATE	held confidential until certificate is issued (7 U.S.C. 2428).				
1. NAME OF APPLICANT(S)		2. TEMPORARY DESIGNATION	3. VARIETY NAME				
Nickerson American Plant Breed	ders Inc.	HS82-288	Telemark				
4. ADDRESS (Street and No. or R.F.D. No., City, Sta	te and Zin Codel	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY				
5201 Johnson Drive	te, and zip code,	(913)384-4949 KS	PVPO NUMBER				
Mission, Kansas 66205		(303)532-3721 CO	0700047				
			8700043				
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	DATE				
		"	January 2, 1987				
Triticum aestivum	Graminea	ie	2:00 A.M. VPM.				
8. KIND NAME	. 9.	DATE OF DETERMINATION	AMOUNT FOR FILING				
Hard Red Spring Wheat	1 1	=1982	0 5 180000				
· · · · · · · · · · · · · · · · · · ·	i	2=1985	DATE				
· · · · · · · · · · · · · · · · · · ·		·	DATE December 29,1986 AMOUNT FOR CERTIFICATE				
10. IF THE APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.)	N," GIVE FORM	OF ORGANIZATION (Corporation,	MAMOUNT FOR CERTIFICATE				
			\$ 200 <u>00</u>				
Corporation			July 26 1988				
11. IF INCORPORATED, GIVE STATE OF INCORPORTED	ORATION		12. DATE OF NCORPORATION				
Delaware			January 19, 1983				
13. NAME AND ADDRESS OF APPLICANT REPRE	SENTATIVE(S), I	F ANY, TO SERVE IN THIS APPLI	CATION AND RECEIVE ALL PAPERS				
R.E. Heiner		R.F. Bruns or C. B	runs				
·)R	P.O. Box 30					
Mission, KS 66205	•	Berthoud CO 805	113 ea code): (303)532-3721				
(913)384-4940 14 CHECK APPROPRIATE BOX FOR EACH ATTA	CHMENT SUBMI	ITED					
a. 🛛 Exhibit A, Origin and Breeding History of			otection Act.)				
b. D Exhibit B, Novelty Statement.							
c. 🛮 Exhibit C, Objective Description of Varie	ty (Request form	from Plant Variety Protection Offi	ce.)				
d. X Exhibit D. Additional Description of Variety.							
e. Exhibit E, Statement of the Basis of App	bit E. Statement of the Basis of Applicant's Ownership. Exhibit F. Quality and Agronomic Dat APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CEF						
SEED? (See Section 83(a) of the Plant Variety Pr			items 16 and 17 below)				
16. DOES THE APPLICANT(S) SPECIFY THAT THE LIMITED AS TO NUMBER OF GENERATIONS?		17. IF "YES" TO ITEM 16.	WHICH CLASSES OF PRODUCTION ED?				
X Yes No		X Foundation	Registered XX Certified				
18. DID THE APPLICANT(S) PREVIOUSLY FILE	FOR PROTECT	ION OF THE VARIETY IN THE U	.S.? Yes (If "Yes," give date:				
			[♥] No				
19. HAS THE VARIETY BEEN RELEASED, OFFE	RED FOR SALE	OR MARKETED IN THE U.S. OF	OTHER COUNTRIES ?				
	, , , , , , , , , , , , , , , , , , , ,	,	Yes (If "Yes," give names of countries and dates:				
			X No				
20. The applicant(s) declare(s) that a viable sam	ole of basic send	s of this variety will be fornished	Circuit				
plenished upon request in accordance with s	uch regulations	as may be applicable.					
The undersigned applicant(s) is (are) the own	ner(s) of this sex	cually reproduced novel plant va	riety, and believe(s) that the variety is				
 distinct, uniform, and stable as required in S 	ection 41, and i	s entitled to protection under th	e provisions of Section 42 of the Plant				
Variety Protection Act.			rocult in nenalties				
Applicant(s) is (are) informed that false repr	ezentation nerei	in can Jeopardize protection and	DATE				
/// I K							
Kales Dum	•		12-18-86				
SIGNATURE OF APPLICANT			DATE				
Rg Lleiner			12-18-86 12-22-86				
FORM WA-470 (7-84) (Edition of 3-84 is obsolete.	1		1/2				
FUNIN 44M-47U (7-04) : {Edition 01 3-64 is 001016te.	.,	· · · · · · · · · · · · · · · · · · ·	. 4				

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF TELEMARK

Telemark originated from the cross 'MN70170/Len' which was made at Berthoud, Colorado in 1979. F2 selections from this cross were advanced in the greenhouse through the F4 generation by single seed descent. The original bulk was from a single F5 head-row selection made at an AgriPro breeding nursery in Hunter, North Dakota in 1981. This bulk was entered into yield trials in 1982 under the experimental number HS82-288. This line has been yield tested in AgriPro nurseries in the Red River Valley from 1982 through 1986. It has been tested in the Northern Uniform Regional Nursery in 1985 and 1986. It has also been tested in North Dakota South Dakota and Minnesota state nurseries in 1986.

There were 296 head-rows grown in Berthoud, CO in 1984 and 280 were selected to produce breeder seed. Approximately 2,250 pounds of breeder seed was produced in Berthoud, CO in 1985.

Telemark is uniform and stable. Less than 1% of the plants were rogued from the foundation fields in 1986. Approximately 90% of the rogued variant plants were 3 to 12 centimeters taller than Telemark. Less than .5% of these total variant plants may be encountered in subsequent generations.

EXHIBIT B

NOVELTY STATEMENT

Telemark is most similar to the hard red spring wheat Marshall. However, it can be distinguished by the following morphological characteristics:

- 75% of Telemark's seeds are collared while Marshall's seeds are not.
- Telemark has an oblique shoulder shape. Marshall is registered as having an elevated shoulder shape. (See Crop Science; vol. 23 Jan./Feb. 1983.)
- Telemark has a strap head shape. Marshall is registered as possessing a fusiform head shape. (See Crop Science; vol. 23 Jan./Feb. 1983.)
- Both Telemark and Marshall have acuminate type beaks.
 However, Telemark's are significantly longer (see statistical data following page).

ANOVA TABLE FOR BEAK LENGTH TELEMARK VERSUS MARSHALL

SOURCE	DF	S S	MS
TOTAL VAR ERROR	49 1 48	94.680 43.992 50.688	43.99235 1.05600

F-TEST = 41.659** CV = 4.308 LSD = 0.116

MEANS FOR EACH VARIETY

MARSHALL MEAN: 3.748 mm's TELEMARK MEAN: 5.624 mm's

** The difference in means of beak length are significantly different at the 1% probability level.

These measurements were obtained from greenhouse plants that were in the 10.5 (heading) growth stage.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (TRITICUM SPP.)

NAME OF APPLICANTIS	FOR OFFICIAL USE ONLY
Nickerson American Plant Breeders Inc.	PYPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	8700043
5201 Johnson Drive Mission, KS 66205	VARIETY NAME OR TEMPORARY DESIGNATION
Place the appropriate number that describes the varietal character of this variety in the Place a zero in first box ($e \cdot e \cdot \boxed{0 \mid 8 \mid 9}$ or $\boxed{0 \mid 9}$) when number is either 99 or less of	e boxes below. r 9 or less.
1. KIND:	
1 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POU	LARD 7 = CLUB
1 1 = SPRING 2 = WINTER 3 = OTHER (Specify) 2 = HARD	3 = OTHER (Specify)
2 1 = WHITE 2 = RED 3 = OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM Planting 0 5 7 LAST	T FLOWERING
4. MATURITY (50% Flowering): 0 2 NO. OF DAYS EARLIER THAN	2 = SCOUT 3 = CHRIS
NO. OF DAYS LATER THAN	5 = NUGAINES 6 = LEEDS 7 = Marshal
S. PLANT HEIGHT (From soil level to top of head):	
0 7 5 CM. HIGH	
CM. TALLER THAN	2 - SCOUT 3 = CHRIS
0 4 CM. SHORTER THAN	2 = SCOUT 3 = CHRIS 5 = NUGAINES 6 = LEEDS 7 = Marshall
6. PLANT COLOR AT BOOTING (See reverse): 7. ANTHER COLOR	:
2 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN 1 1 = YELLOW	2 = PURPLE
8. STEM: 1 \text{Animodyanin: } 1 = ABSENT 2 = PRESENT 2 Waxy bloom:	= ABSENT 2 = PRESENT
2 Hairiness of last 2 = PRESENT 1 Internodes: 1	= HOLLOW 2 = SOLID
	ERNODE LENGTH BETWEEN FLAG LEAF AF BELOW
9. AURICLES:	
2 Anthocyunin: 1 = ABSENT 2 = PRESENT 2 Hairiness: 1	= ABSENT 2 = PRESENT
10. LEAF:	•
Fing leaf at 1 = ERECT 2 = RECURVED 1 booting stage: 3 = OTHER (Specify):	NOT TWISTED 2 = TWISTED
1 Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT 2 Waxy bloom of	flagilenf sheath: 1 = ABRENT 2 = PRESENT
1 2 MM. LEAF WIDTH (First loss below flag loss) 2 0 CM. LEA	F LENGTH (First leaf below flag leaf):

FORM GR-470-6 (REVERSE)	8700043
HEAD:	Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE
3 Density: 1 = LAX 2 = DENSE 3=middense	2 4 = OTHER (Specify)
4 Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3	= AWNLETED 4 4 = AWNED
Color at maturity: 5 = BROWN 6 = BLACK 7 = OTHER	
7.5 CM. LENGTH	11 1 MM. WIOTH '
12. GLUMES AT MATURITY:	
Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)	2 Tidth: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.)
T- CONG (CX) Hair.)	3 = WIDE (CA. 4 mm.)
Shoulder 1 = WANTING 2 = OBLIQUE 3 = ROUNDED	
2 shape: 4 = SQUARE 5 = ELEVATED 6 = APICULATE	3 Beak: 1=08TUSE 2=ACUTE 3=ACUMINATE
13. COLEOPTILE COLOR:	14. SEEDLING ANTHOCYANIN:
1 1 = WHITE 2 = RED 3 = PURPLE	2 1 = ABSENT 2 = PRESENT
15. JUVENILE PLANT GROWTH HABIT:	
2 1 = PROSTRATE 2 = SEMI-ERECT 3 = EREC	
1& SEED:	
1-2 Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL	1 Cheek: 1 = ROUNDED 2 = ANGULAR
midlong 2 Brush: 1 = SHORT 2 = 3 = LONG	2 Brush: 1= NOT COLLARED 2= COLLARED 75% SeedS
Phenol reaction 1 = (VORY - 2 = FAWN 3 = LT. BROWN	are collared
(See instructions): 4 = BROWN 5 = BLACK	[4]
3 Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE	5 = OTHER (Specify)
5. 4 MM. LENGTH 3.2 MM. WIDTH	3 8 GM. PER 1000 SEEDS
17. SEED CREASE:	
Vidth: 1 = 60% OR LESS OF KERNEL WINDKA	Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT'
2 = 80% OR LESS OF KERNEL 'CHRIS'	2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMM!
.18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=MO	derately Suscentible A=Moderately Posistant
4 STEM RUST field races 2 (Racos) field races	O STRIPE RUST
(Races) Held laces 1 (Races) Held laces	(Racea) UI LOOSE SMC:
O POWCERY MILDEW O BUNT	OTHER (Specify)
19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant) 3=Mo	derately Susceptible 4=Moderately Resistant
0 SAWFLY 0 APHID (Bydy.)	0 GREEN BUG 0 CEREAL LEAF BEETLE
O OTHER (Specify) HESSIAN FLY	O GP O A O B O C
RACES:	
·	00 0 6 0 6
20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT S	UBMITTED:
CHARACTER NAME OF VARIETY	CHARACTER NAME OF VARIETY
Plant tillering Marshall	Seed lize Marshall
Leaf size Marshall	Seed shape Marshall Corecontrier elongation Marshall
Leai corrigae Marshall Leai corrigae Marshall	Coleoptive elongation Marshall Seasons promentation Marshall
	CTIONS

GENERAL: The following publications may be used as a reference and for the standardization of terms and procedures for completing thus intentions.

- (a) L.W. Briggie and L. P. Reitz. 1963, Classification of Tritizum Species and Theat Varieties Grown in the United States, Technical Builerin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenot Method for Testing Theat Seeds for Varietal Purity, auntribution No. 28 to the hamphoon or seed testing prepared by the Association of Official deed Analysis. Thee allocaments, 6

LEAF COLOR: Nickerson's or any recognized color fan should be used to determine the leaf color of the described variety.

EXHIBIT D

ADDITIONAL DESCRIPTION OF TELEMARK

Telemark is a hard red spring wheat bred and developed by Nickerson American Plant Breeders Inc.

Telemark is a short semidwarf height variety with excellent straw strength characteristics with medium to early maturity. Milling and baking properties are very good.

Juvenile plant growth habit is semi-erect. Plant color at boot is green with an erect, twisted flag leaf. Head shape is strap, middense, awned and head color is white at maturity. Glumes are midwide and midlong with oblique shoulders and acuminate beaks. Seed shape is oval to ovate with rounded cheeks. Seed crease is narrow and shallow.

Telemark is primarily adapted to the higher yield areas of the upper Midwest.

EXHIBIT E

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

Nickerson American Plant Breeders Inc. is the applicant for protection in this case being:

- a) The incorporated business (registered in Delaware) for and within which regular employees have bred the named variety.
- b) The proprietory owner and intending commercial user of the variety.



EXHIBIT F QUALITY AND AGRONOMIC DATA

QUALITY	DAT	A .			•	• .	4	4	٠.	•	4		 ٠.	4.		
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AGRONOMI	C DA	ATA	•	•	•						٠					- 3

YEHR	YEAR 1986					*	нако ке	D SPRIN	HAKD RED SPRING WHEAT QUALITY	CUAL I	}	si i Gilikur					PASE	-1 W
				WHEA	WHEATFLOU	JR RUALITY	YTI.				EAKIN	BAKING QUALITY	ΕТΥ					
YEAR	SAMPLE	207	TEST WT.	WHT	FLR	FLR PROT	FLR ASH	MIX	ABS.	MIX	DOUGH	LOAF	GRN	CRUMB	8	MILL	BAKE	TOTAL
ļ			1b/Eu	142mb	N	14%mb	14%mb	ŭ	× ×	min	α.	00,	1	ŭ	T.	 		
(g) (r)	TELEMARK	ک	53.3		63.9		0.390	o)	63.0	2.5	~	1000		0.1	ו נס	90-A	1 00	172-B
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(A) (TELEVEN	ວັ	5€.55	14.5		₹.81	0.422	ဖ	63.0	0) (Y)	(ט	1000+	در	٨	O)	77-0	母+96	163-1
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REGIONAL SUMMARY OF AGRIPRO AND OTHER SELECTED VARIETIES

			Yield	- Bu/A		**				
<u>Variety</u>		84(4)	85(5)	<u>86 (4)</u>	3-Year <u>Avg.</u>	% of Wheaton	T.Wt.(14) _lbs/bu	Ht.(14)	Lodg. (5)	Head.(15)
Nordic		71.4	90.6	56.5	74.2	103	61.3	83.4	4.7	59.8
Erik		66.4	87.9	60.7	72.9	101	59.2	81.7	4.8	61.2
Wheaton		68.2	85.4	57.9	72.5	100	58.9	77.9	3.3	58.8
Telemark		67.3	86.7	58.3	72.0	99	59.1	75.0	1.2	58.0
Norseman		68.4	87.1	54.6	71.3	98	58.3	76.1	1.8	59.6
Marshall		65.1	86.3	58.0	71.0	98	59.9	78.9	2.8	59. <i>7</i>
Celtic		64.5	80.3	53.2	67.1	93	60.2	83.4	3.5	57.9
Oslo	:	62.5	82.2	52.4	67.0	92	58.7	78. 6	1.5	56.0
. 2369 .		65.8	76.9	55.6	66.9	92	59.7	79.3	2.9	58.1
Stoa		65.4	77.7	53.9	66.6	92	59.6	95.6	3.8	57.6
Era		58.9	84.0	52.2	66.5	92	59.6	79.0	5.0	61.0
Len		63.7	<i>7</i> 7.5	52.3	65.5	90	60.0	82.6	2.4	58.7
Guard		61.2	76.6	51.8	64.2	88	59.4	81.2	2.1	56.4
Butte		57.9	69.9	49.4	59.9	83	60.5	90.6	5.4	55.6

^{() -} indicates number of locations